

# Railway TRACK and

# STRUCTURES

Vol. 56

January-December 1960

## General Index

Illustrated articles are indicated thus\*

television, Topeka & Santa Fe:  
Model shows line change in Arizona, \*Feb 38  
Students tour line change, \*July 35  
Holds school on tamper operation, maintenance, \*Aug 31  
Drafting room gets new lighting, work aids, microfilming, \*Aug 32  
How Santa Fe is laying 1440-ft rails on big line change, \*Sept 42  
Atlantic Coast Line:  
Concrete-tie test sections go in on ACL, SAL, \*Apr 32  
Service tests of prestressed concrete ties, \*Sept 33  
Ballast and Ballasting:  
Wants to take a leaf from highway builder's book, Apr 58  
How D&H 'harvests' second 'crop' of stone from old roadbeds, \*June 30  
Forking ballast to tampers, Aug 37  
How PRR saves by undercutting tracks at bridges, \*Nov 26  
Altimore & Ohio:  
Gets set for the '60s, \*Jan 23  
New team heads revamped setup, charts future, \*Jan 24  
Serves rugged country, carries heavy traffic, \*Jan 24  
Heavy-tonnage traffic dictates track standards, \*Jan 26  
Weed and brush-control activities, Jan 27  
Track forces regrouped, mechanized to reduce costs, \*Jan 28  
Emphasizes on-the-job training, Jan 29  
How new track setup works, \*Jan 30  
How rail is laid with small gangs, \*Jan 32  
Builds spur by the panel method, \*Jan 34  
Building forces look to the future, \*Jan 35  
Has 5,500 RR bridges to maintain, \*Jan 36  
Self-propelled scaffold for tunnel work, \*Jan 37  
Port facilities are big factor, \*Jan 40  
System shop for M/W work equipment, \*Jan 45  
How timber is treated and preframed, \*Jan 46  
Signal forces in full stride, \*Jan 48  
Fast way to take old track apart, \*Feb 30  
Launch tunnel repair, daylighting program, \*Aug 24  
Bridges and Buildings, General:  
Obtaining additional building material, Feb 44  
PRR's formula for B&B efficiency, \*Mar 43  
Bridges, Concrete:  
New prestressed concrete trestle for WP, \*May 38  
Bridges, General:  
B&O has 5,500 RR bridges to maintain, \*Jan 36  
Surfacing track over bridge waterproofing, Mar 79  
Pedestrian bridge enclosed for safety, \*May 38  
Equipment for removing drift, May 52  
Straightening tilted piers, Sept 66  
Bridges, Steel:  
New bridge was built around old one on UP, \*Apr 29  
Install wrought iron deck, \*Apr 36  
Fidewater helps position 542-ft lift span, \*May 36  
Expansion bearings for bridges, June 44  
New bridge over expressway for C&NW, \*Aug 34  
High-Strength bolts for new bridge, \*Oct 30  
New Burlington bridge cuts traffic delays, \*Dec 28  
Bridges, Timber:  
How timber is treated and preframed on B&O, \*Jan 46  
L&N rebuilds burned-out trestle fast, \*Feb 32  
Driving bent piling, Feb 48  
What to do about brooming pile, Mar 80  
Detecting decay in wood stringers, Apr 46  
When should piles be posted?, May 52  
GM&O gets more life from old timber approaches, \*Sept 40  
Using an increment borer, Sept 68  
Inspecting stringers of ballast-deck trestles, Oct 37  
Hydraulic tool speeds pile driving on GN, \*Nov 28

Double-capping a timber bent, Nov 42  
How to repair diagonal bracing, Dec 38  
Using 'helper' piles in bents, Dec 40  
Brush:  
Weed and brush-control activities on B&O, Jan 27  
The battle against brush, \*Feb 23  
Many types of powered cutters are in use, Feb 24  
Chemicals prove powerful ally, \*Feb 26  
Buildings and Building Work:  
B&O building forces look to future, \*Jan 35  
Obtaining additional building material, Feb 44  
Ventilating prefabricated buildings, Apr 48  
Barrel-shell roof for big UP freighthouse, \*June 32  
Condensation in computer rooms, July 48  
Advanced features for big, new Burlington freighthouse, \*Aug 29  
Santa Fe drafting room gets new lighting, work aids, microfilming, \*Aug 32  
New produce terminal for NP, \*Aug 34  
New roof or patch?, Aug 41  
MKT has new windowless office building, \*Sept 47  
Resin . . . What they are; how they're used in paints, \*Nov 33  
Prefabricated building houses new diesel shop, \*Nov 37  
New factory for Kohler Company, \*Dec 34  
Canadian National:  
Dedicate new classification yard, \*Dec 34  
Chesapeake & Ohio:  
Installing metal liner plates in old tunnel, \*Aug 22  
Chicago & North Western:  
Fill between sheet-pile walls carries long, 3-track shoo-fly, \*May 35  
New bridge over expressway, \*Aug 34  
Chicago, Burlington & Quincy:  
Advanced features for big, new freighthouse, \*Aug 29  
High-strength bolts for new bridge, \*Oct 30  
New bridge cuts traffic delays, \*Dec 28  
Chicago, Milwaukee, St. Paul & Pacific:  
Get more clearance in tunnel by cutting down floor, \*July 23  
Chicago, Rock Island & Pacific:  
Conversion units installed on sedans, \*Feb 38  
Communism:  
Editorial: The great challenge—International communism, Oct 14  
Concrete and Concrete Work:  
Visits concrete-tie plant, \*Feb 38  
Concrete-tie test sections go in on ACL, SAL, \*Apr 32  
Hopes for concrete tie, Apr 58  
New prestressed concrete trestle for WP, \*May 38  
Barrel-shell roof for big UP freighthouse, \*June 32  
WP installs prestressed concrete ties, \*July 35  
How WP produces concrete for tunnel linings, \*Aug 23  
Restoring tunnels by grouting preplaced coarse aggregate, \*Aug 24  
How the Erie is repairing and waterproofing an old brick tunnel, \*Aug 26  
Concrete railroad crossing foundation, \*Aug 34  
New produce terminal for NP, \*Aug 34  
Service tests of prestressed concrete ties, \*Sept 33  
New machine developed for mass production of concrete ties, \*Nov 37  
Russians inspect concrete ties, \*Dec 34  
Contractors:  
Employing local contractors, June 44  
Conventions and Meetings:  
AREA program, \*Mar 36  
AREA meeting had many special features, \*Apr 23  
Railway Systems & Procedures Association, \*July 28  
Editorial: RR associations—An aid to supervisory training, Aug 15  
Roadmasters' and B&B programs, \*Sept 38  
Roadmasters' and B&B convention report, \*Oct 17  
Editorial: The AREA meeting—A question of economics, Dec 13  
Railway Tie Association, Dec 31  
Cranes:  
Using cranes in track work, Sept 80

Crossings:  
NYC mechanizes repairs to road crossings, \*June 27  
Editorial: Grade crossing maintenance, Aug 15  
Repairing heaved road crossings, Nov 44  
Culverts:  
Why build culvert headwalls?, Aug 40  
Delaware & Hudson:  
How D&H 'harvest' second 'crop' of stone from old roadbeds, \*June 30  
Employees:  
Editorial: More and better reading, Jan 16  
B&O emphasizes on-the-job training, Jan 29  
Editorial: Progress in solving local labor problems, Feb 12  
Editorial: Don't neglect the high school graduates!, May 14  
Editorial: Public relations wanted!, May 14  
What does a career in M/W work offer for the bright young man?, May 32  
Maintaining order in camps, June 46  
Erie:  
Repairing and waterproofing an old brick tunnel lining, \*Aug 26  
Erie formula for fast surfacing, \*Dec 24  
Fences:  
Fence-erecting machine developed, \*Apr 36  
Installing slat snow fences, Oct 50  
Georgia & Florida:  
Rebuilding tracks with ICC-approved loan, \*May 29  
Grade Separation:  
New bridge over expressway, \*Aug 34  
Grand Trunk Western:  
Quick shift—From smoothing to raising, \*Oct 26  
Great Northern:  
Hydraulic tool speeds pile driving, \*Nov 28  
Gulf, Mobile & Ohio:  
Getting more life from old timber approaches, \*Sept 40  
Indiana Harbor Belt:  
Concrete railroad crossing foundation, \*Aug 34  
Inspections:  
Editorial: The need for more scientific inspections, June 17  
Using an increment borer, Sept 68  
Inspecting stringers of ballast-deck trestles, Oct 37  
Line Changes:  
Model shows Santa Fe line change in Arizona, \*Feb 38  
Students tour Santa Fe line change, \*July 35  
How Santa Fe is laying 1440-ft rails on big line change, \*Sept 42  
Louisville & Nashville:  
Burned-out trestle is rebuilt fast, \*Feb 32  
Enlarge unlined tunnel, \*Aug 25  
New passenger station at Birmingham, \*Oct 30  
Louisiana Midland:  
Mechanization for a short line railroad, \*Oct 23  
Maintenance of Way:  
B&O gets set for the '60s, \*Jan 23  
New team heads revamped setup, charts future on B&O, \*Jan 24  
Heavy-tonnage traffic dictates track standards on B&O, \*Jan 26  
Weed and brush control on B&O, Jan 27  
Track forces on B&O regrouped, mechanized to reduce costs, \*Jan 28  
How new B&O track setup works, \*Jan 30  
How rail is laid with small gangs on B&O, \*Jan 32  
B&O builds spur by the panel method, \*Jan 34  
B&O uses self-propelled scaffold for tunnel work, \*Jan 37  
B&O has system shop for M/W work equipment, \*Jan 45  
How timber is treated and preframed on B&O, \*Jan 46  
Editorial: Progress in solving local labor problems, Feb 12  
The battle against brush, \*Feb 23  
Many types of powered brush cutters are in use, \*Feb 24

- Chemicals prove powerful ally for fighting weeds and brush, \*Feb 26
- Conversion units installed on sedans, \*Feb 38
- Stand-by material at hump yards, Feb 40
- Editorial: Progress in M/W—A matter of attitude, Mar 16
- Standardization . . . Industries have, why not railroads?, \*Mar 35
- How much more work equipment?, Mar 38
- Procedure for frost heaving, Mar 69
- Surfacing track over bridge waterproofing, Mar 79
- Advice on a career in RR maintenance, Mar 82B
- Editorial: "Follow-through" needed, Apr 18
- Editorial: Why faster progress in M/W field today?, Apr 18
- Training of machine operators and mechanics, \*Apr 26
- Editorial: Don't neglect the high school graduates!, May 14
- Editorial: Public relations wanted, May 14
- G&F rebuilds tracks with ICC-approved loan, \*May 29
- What does a career in M/W work offer for the bright young man?, May 32
- Setoffs for track machines, May 46
- Can 50-mile sections be justified?, May 64
- Editorial: The need for more scientific inspections, June 17
- Maintaining order in camps, June 46
- Use of throat-cut track spikes, June 50
- Editorial: What's the limit in stretching service life?, July 20
- Editorial: Where the man-hours go, July 20
- What's needed for short, long-range maintenance program, \*July 28
- CTC—Its effect on M/W work, July 31
- Editorial: Grade crossing maintenance, Aug 15
- Staff report on tunnel work, \*Aug 21
- Appreciates coverage of AREA panel discussion, Aug 52
- Editorial: Standards needed for figuring unit costs, Sept 26
- PRR puts rail failure data on punch cards, \*Sept 45
- Handling miscellaneous work, Sept 60
- Says magazine of 'great value', Sept 88
- Says rail, tie condition is improving, not deteriorating, Sept 90
- Editorial: The great challenge—International communism, Oct 14
- Mechanization for a short line railroad, \*Oct 23
- Installing slat snow fences, Oct 50
- Editorial: Roads getting 'plus' value from machines, Nov 13
- Railroad M/W practices in Russia, \*Nov 23
- Repairing heaved road crossings, Nov 44
- Agrees that reliable unit costs are needed, Nov 50
- Says two points omitted from editorial on unit costs, Nov 50
- Editorial: Needed—New ideas, Dec 13
- Editorial: The AREA meeting—A question of economics, Dec 13
- Erie formula for fast surfacing, \*Dec 24
- Classifying recovered rail, Dec 43
- Marine Terminals:
- Port facilities are big factor on B&O, \*Jan 40
- Masonry:
- Failing stone wall is reconditioned by grouting, \*May 28
- Straightening tilted piers, Sept 66
- Metal Hardening:
- Wabash tests explosive hardening, \*July 26
- Missouri-Kansas-Texas:
- New windowless office building, \*Sept 47
- Missouri Pacific:
- New yard goes into service, \*Jan 53
- Monon:
- Failing stone wall is reconditioned by grouting, \*May 28
- Monorails:
- French monorail car, \*June 36
- New York Central:
- Snow-fighting the modern way, \*Jan 53
- Track is removed in 39-ft panels, \*Mar 47
- Pedestrian bridge enclosed for safety, \*May 38
- Mechanizes repairs to road crossings, \*June 27
- Modernizing freight yard in Manhattan, \*June 36
- Dedicate new electric yard, \*Oct 30
- Special racks speed track removal in panels, \*Nov 31
- New York City Transit Authority:
- Grinding train for subways, \*Sept 48
- Northern Pacific:
- Install wrought iron deck, \*Apr 36
- New produce terminal, \*Aug 34
- Paint:
- Cleaning paint-spray equipment, July 47
- Resins . . . What they are; how they're used in paints, \*Nov 33
- Pennsylvania:
- Formula for B&B efficiency, \*Mar 43
- New machines for PRR, \*Apr 36
- Sign contract for welded rail, \*Apr 36
- Tidewater helps position 542-ft lift span, \*May 36
- Hydraulic tester cuts downtime of M/W machines, \*June 34
- Put rail failure data on punch cards, \*Sept 45
- How PRR saves by undercutting tracks at bridges, \*Nov 26
- Piles:
- Driving bent piling, Feb 48
- What to do about brooming pile, Mar 80
- When should piles be posted?, May 52
- Hydraulic tools speed pile driving on GN, \*Nov 28
- Using 'helper' piles in bent, Dec 40
- Pittsburgh & West Virginia:
- Arch failure blocks 1500-ft tunnel, \*Feb 34
- Prefabricated Buildings:
- Ventilating prefabricated buildings, Apr 48
- Advanced features for big, new Burlington freight house, \*Aug 29
- New building houses diesel repair shop on Reading, \*Nov 37
- Prestressed Concrete:
- Concrete-tie test sections go in on ACL, SAL, \*Apr 32
- New prestressed concrete trestle for WP, \*May 38
- WP installs prestressed concrete ties, \*July 35
- Concrete railroad crossing foundation, \*Aug 34
- New produce terminal for NP, \*Aug 34
- Service tests of prestressed concrete ties, \*Sept 33
- New machine developed for mass production of concrete ties, \*Nov 37
- Russians inspect concrete ties, \*Dec 34
- Quebec Cartier:
- Building Quebec's new railroad, \*June 36
- Quebec North Shore & Labrador:
- Builds 37-mile line in Labrador with 1,000-ft welded rails, \*July 32
- Rail:
- Attention to insulated joints, July 40
- Handling of sun-kinks, Aug 38
- PRR puts rail failure data on punch cards, \*Sept 45
- NYCTA has grinder train for subways, \*Sept 48
- Says rail, tie condition is improving, not deteriorating, Sept 90
- Surfacing new rail, Oct 42
- Report on welded rail today, \*Dec 21
- Classifying recovered rail, Dec 43
- Rail Laying:
- How rail is laid with small gangs on B&O, \*Jan 32
- B&O builds spur by the panel method, \*Jan 34
- Welded rails—procedures and equipment for handling in field, \*Mar 40
- Use new or old spike holes?, Apr 49
- Building Quebec's new railroad, \*June 36
- Build 37-mile line in Labrador with 1,000-ft welded rails, \*July 32
- How Santa Fe is laying 1440-ft rails on big line change, \*Sept 42
- Cutting strings of welded rail, \*Nov 48
- Railroads:
- Editorial: Ahead—A decade of progress, Jan 16
- Rail, Welded:
- Procedures and equipment for handling in field, \*Mar 40
- PRR signs contract for welded rail, \*Apr 36
- Butt-welding plants at rolling mills, \*June 23
- Build 37-mile line in Labrador with 1,000-ft welded rails, \*July 32
- How Santa Fe is laying 1440-ft rails on big line change, \*Sept 42
- Dedicate welding plant in Alabama, \*Sept 48
- Welding plant at Harrisburg dedicated, \*Sept 48
- New machines for oxy-acetylene butt-welding, \*Oct 28
- Cutting strings of welded rail, \*Nov 48
- Report on welded rail today, \*Dec 21
- Reading:
- Prevent rock falls with roof bolts, \*Aug 23
- Prefabricated building houses new diesel repair shop, \*Nov 37
- Right of Way:
- Editorial: Land for Sale, June 17
- Russia:
- Railroad M/W practices in Russia, \*Nov 23
- Russians inspect concrete ties, \*Dec 34
- Seaboard Air Line:
- Concrete-tie test sections go in on ACL, SAL, \*Apr 32
- Service tests of concrete ties, \*Sept 33
- Russians inspect concrete ties, \*Dec 34
- Sheet Piling:
- Fill between sheet-pile walls carries long, 3-track shoo-fly, \*May 35
- Shops:
- B&O has system shop for M/W work equipment, \*Jan 45
- Signals and Communications:
- B&O signal forces in full stride, \*Jan 48
- CTC—Its effect on M/W work, July 31
- Smoothing:
- Quick shift—From smoothing to raising, \*Oct 26
- Snow and Snow Fighting:
- Snow fighting the modern way, \*Jan 53
- Installing slat snow fences, Oct 50
- Stations, Passenger:
- New passenger station for L&N at Birmingham, \*Oct 30
- Supervisors:
- Editorial: Changes in supervision, Feb 12
- Editorial: RR associations—An aid to supervisory training, Aug 15
- Obtaining and training M/W supervisors, \*Aug 30
- Editorial: Satisfied supervisors, Nov 13
- Surfacing:
- Making surfacing run-offs, Feb 42
- Surfacing track over bridge waterproofing, Mar 79
- Surfacing new rail, Oct 42
- Erie formula for fast surfacing, \*Dec 24
- Ties:
- How timber is treated and preframed on B&O, \*Jan 46
- Visits concrete-tie plant, \*Feb 38
- Use of large and small cross ties, Feb 54
- Concrete-tie test sections go in on ACL, SAL, \*Apr 32
- Use new or old spike holes?, Apr 49
- Disposing of old ties, Apr 52
- Hopes for concrete tie, Apr 58
- Use of throat-cut track spikes, June 50
- WP installs prestressed concrete ties, \*July 35
- Hauling cross ties in trucks, July 51
- Service tests of prestressed concrete ties, \*Sept 33
- Says rail, tie condition is improving, not deteriorating, Sept 90
- Disturbing old tie bed, Oct 37
- New machine developed for mass production of concrete ties, \*Nov 37
- How good are ties in track today?, Dec 31
- Russians inspect concrete ties, \*Dec 34
- Tight gage for slewed ties, Dec 36
- Use of new spikes, Dec 47
- Track:
- Heavy-tonnage traffic dictates track standards on B&O, \*Jan 26
- How new B&O track setup works, \*Jan 30
- How rail is laid with small gangs on B&O, \*Jan 32
- B&O builds spur by the panel method, \*Jan 34
- B&O has fast way to take old track apart, \*Feb 30
- Stand-by material at hump yards, Feb 40
- Making surfacing run-offs, Feb 42
- Use of large and small cross ties, Feb 54
- NYC removes track in 39-ft panels, \*Mar 47
- Procedure for frost heaving, Mar 69
- Surfacing track over waterproofing, Mar 79
- Concrete-tie test sections go in on ACL, SAL, \*Apr 32
- Use new or old spike holes?, Apr 49
- Wants to take a leaf from highway builder's book, Apr 58
- Why five basic turnouts?, \*May 25
- G&F rebuilds tracks with ICC-approved loan, \*May 29
- Fill between sheet-pile walls carries long, 3-track shoo-fly, \*May 35
- Can 50-mile sections be justified?, May 64
- Building Quebec's new railroad, \*June 36
- Modernizing yard in Manhattan, \*June 36
- Use of throat-cut track spikes, June 50
- Get more clearance in tunnel by cutting down floor, \*July 23
- Build 37-mile line in Labrador with 1,000-ft welded rails, \*July 32
- WP installs prestressed concrete ties, \*July 35
- Attention to insulated joints, July 40
- Service tests of prestressed concrete ties, \*Sept 33
- How Santa Fe is laying 1440-ft rails on big line change, \*Sept 42
- NYCTA has grinder train for subways, \*Sept 48
- Handling miscellaneous work, Sept 60
- Using cranes in track work, Sept 80
- Mechanization for a short line railroad, \*Oct 23
- Quick shift—From smoothing to raising, \*Oct 26
- Disturbing old tie beds, Oct 37
- Surfacing new rail, Oct 42
- How PRR saves by undercutting tracks at bridges, \*Nov 26
- Special racks speed track removal in panels, \*Nov 31
- Cutting strings of welded rail, \*Nov 48
- Report on welded rail today, \*Dec 21
- Erie formula for fast surfacing, \*Dec 24
- Wire 'sighting' device adapted for lining through turnouts, \*Dec 32
- Tight gage from slewed ties, Dec 36
- Use of new spikes, Dec 47
- Training:
- B&O emphasizes on-the-job training, Jan 29
- Editorial: "Follow-through" needed, Apr 18
- Training of machine operators and mechanics, \*Apr 26
- Obtaining and training M/W supervisors, \*Aug 30
- Appreciates coverage of AREA panel discussion, Aug 52
- Transportation Systems:
- French monorail car, \*June 36
- Trucks and Trailers:
- New machines for PRR, \*Apr 36
- Wheel toe-in of rail-highway cars, Apr 44
- Hauling cross ties in trucks, July 51
- Tunnels:
- B&O uses self-propelled scaffold for tunnel work, \*Jan 37
- Arch failure blocks 1500-ft tunnel on P&WV, \*Feb 34
- Get more clearance in tunnel by cutting down floor, \*July 23
- Staff report on tunnel work, \*Aug 21
- Installing metal liner plates in old C&O tunnel, \*Aug 22
- How WP produces concrete for tunnel linings, \*Aug 23
- Reading prevents rock falls with roof bolts, \*Aug 23

**B&O launches tunnel program, \*Aug 24**  
 Restoration by grouting preplaced coarse aggregate, \*Aug 24  
 L&N enlarges unlined tunnel, \*Aug 25  
 How the Erie is repairing and waterproofing an old brick lining, \*Aug 26

**Unit Pacific:**  
 New bridge was built around old one, \*Apr 29  
 Barrel-shell roof for big freight house, \*June 32

**Unit Costs:**  
 Editorial: Standards needed for figuring unit costs, Sept 26  
 Agrees that reliable unit costs are needed, Nov 50  
 Says two points omitted from editorial on unit costs, Nov 50

**Ventilation:**  
 Ventilating prefabricated buildings, Apr 48  
 Condensation in computer rooms, July 48

**Wabash:**  
 Tests explosive hardening, \*July 26  
 Water and Fuel Service:  
 Repair parts for fueling stations, Nov 49

**Weeds:**  
 Weed and brush control on B&O, Jan 27  
 Chemicals prove powerful ally, \*Feb 26

**Welded Rail:**  
 Procedures and equipment for handling in field, \*Mar 40  
 PRR signs contract for welded rail, \*Apr 36  
 Butt-welding plants at rolling mills, \*June 23  
 Build 37-mile line in Labrador with 1,000-ft welded rails, \*July 32  
 How Santa Fe is laying 1440-ft rails on big line change, \*Sept 42  
 Dedicate welding plant in Alabama, \*Sept 48  
 Welding plant at Harrisburg dedicated, \*Sept 48

**New machines for oxy-acetylene butt-welding,**  
 \*Oct 28  
 Cutting strings of welded rail, \*Nov 48  
 Report on welded rail today, \*Dec 21  
**Welding and Welding Equipment:**  
 Work for division welders, Nov 41  
**Western Pacific:**  
 New prestressed concrete trestle, \*May 38  
 Installs prestressed concrete ties, \*July 35  
 How WP produces concrete for tunnel linings, \*Aug 23

**Work Equipment:**  
 Track forces on B&O regrouped, mechanized to reduce costs, \*Jan 28  
 How new B&O track setup works, \*Jan 30  
 B&O uses self-propelled scaffold for tunnel work, \*Jan 37  
 B&O has system shop for M/W work equipment, \*Jan 45  
 Many types of powered brush cutters are in use, \*Feb 24  
 Rock Island installs conversion units on sedans, \*Feb 38  
 Editorial: On redesigning machines, Mar 16  
 How much more work equipment?, Mar 38  
 Welded rails—procedures and equipment for handling in field, \*Mar 40  
 PRR's formula for B&B efficiency, \*Mar 43  
 Editorial: "Follow-through" needed, Apr 18  
 Training of machine operators and mechanics, \*Apr 26  
 Fence-erecting machine developed, \*Apr 36  
 New machines for PRR, \*Apr 36  
 Wheel toe-in of rail-highway cars, Apr 44  
 Distributors visit Racine plant, \*May 38  
 Setoffs for track machines, May 46  
 Equipment for removing drift, May 52  
 NYC mechanizes repairs to road crossings, \*June 27  
 Hydraulic tester cuts downtime of M/W machines, \*June 34

**Building Quebec's new railroad, \*June 36**  
 Room for dust-free jacks, \*June 36  
 Using work equipment on yard tracks, June 38  
 Machine operator's views on AREA panel discussion, June 53  
 Cleaning paint-spray equipment, July 47  
 Santa Fe school on tamper operation, maintenance, \*Aug 31  
 Equipment operators' responsibility, Aug 47  
 Appreciates coverage of AREA panel discussion, Aug 52  
 Editorial: Servicing roadway machines, Sept 26  
 Fueling and servicing equipment, Sept 74  
 Using cranes in track work, Sept 80  
 Editorial: How much service?, Oct 14  
 Mechanization for a short line railroad, \*Oct 23  
 Quick shift—From smoothing to raising, \*Oct 26  
 Editorial—Roads getting 'plus' value from machines, Nov 13  
 Hydraulic tool speeds pile driving on GN, \*Nov 28  
**Wrought Iron:**  
 NP installs wrought iron deck, \*Apr 36

**Yards and Terminals:**  
 New classification yard goes into service on MP, \*Jan 53  
 Stand-by material at hump yards, Feb 40  
 NYC lays track in panels for new yard, \*Mar 47  
 Modernizing freight yard in Manhattan, \*June 36  
 Using work equipment on yard tracks, June 38  
 New produce terminal for NP, \*Aug 34  
 Skates give way to mechanical retarders in hump yard, \*Sept 36  
 NYC dedicates new electronic yard, \*Oct 30  
 CNR dedicates new classification yard, \*Dec 34

## New Products Index

*Illustrated articles are indicated thus\**

**Allied Chemical Corporation:**  
 Liquid weld filler, \*May 42  
**Aluminum Company of America:**  
 Exoweld method for rail welding, \*Sept 58  
**Amchem Products, Inc.:**  
 New herbicide, Aug 36  
**American Brake Shoe Company:**  
 Mechanical car retarder, \*Feb 39  
**Armco Drainage & Metal Products, Inc.:**  
 New line of Armco steel buildings, \*June 37  
 New line of steel canopies, \*Nov 38

**Bernuth, Lembeck, Inc.:**  
 Rail lock spike, Mar 60  
**The Brice Hayes Company:**  
 New carrying case for Hayco lining scope, \*May 44  
 Tilt control for lining scope, \*July 38  
 Convert to HI-Dump, \*Sept 53

**Bucvris-Erie Company:**  
 Flanged wheels for rubber-tired crane-excavator, \*July 38

**Caterpillar Tractor Company:**  
 New Traxcavator, \*Mar 58  
 Crawler tractor, Apr 42  
 Motor graders, \*Aug 36  
 New track-type Traxcavator, \*Sept 56  
 Power shifting for new crawler Traxcavator, \*Dec 35

**Conley Frog & Switch Company:**  
 Sliding rail joints, \*Jan 54  
**W. F. Covington Planter Company, Inc.:**  
 Brush cutters, \*July 36

**Daubert Chemical Company:**  
 Protective seals for ties, \*Mar 56  
**Dearborn Chemical Company:**  
 New bridge coating, July 36

**Erie Strayer:**  
 New tie grabble, \*Apr 56  
**Exomet, Inc.:**  
 Exoweld method for rail welding, \*Sept 58

**Fabreeka Products Company, Inc.:**  
 Improved tie pad, \*Mar 64  
**Fairmont Railway Motors, Inc.:**  
 Hy-Rail equipment, \*Mar 52  
 Magnetic tie plate lifter, \*Mar 56  
 New tie remover, \*Apr 39  
 New spike puller, \*May 42  
 Tie-plug inserter, \*May 45  
 New snow melter, \*Sept 53  
 Rotary snow plow, \*Sept 56  
 New weed burner, \*Nov 38

**The Frog, Switch & Manufacturing Company:**  
 Self-hardening frog, \*Mar 60

**John Hassall, Inc.:**  
 Three types of marking nails, \*Aug 35

**Hobart Brothers Company:**  
 Improvements made to mobile welders, \*Nov 40

**Hydraulic Press Manufacturing Company:**  
 Hydraulic press for rails, \*July 38

**Ingersoll-Rand Company:**  
 New impact wrench, \*Aug 36  
 New impact wrench, \*Sept 58  
 New concrete vibrator, \*Oct 31

**Johnson Rubber Company:**  
 Rubber insulated joints, \*May 42  
**O. F. Jordan Company:**  
 Ballast carry wings, \*Mar 64

**Kalamazoo Manufacturing Company:**  
 Improvements made to track machines, \*Dec 35  
**Kershaw Manufacturing Company:**  
 Turntable for ballast regulator, \*Mar 52  
 New utility trailer, \*Mar 56  
 Improvements made to cribbing machine, \*Mar 62

**One-man operation for brush-type cribber,**  
 \*April 39  
 Tie inserter added to tie bed cleaner, \*Apr 56

**Koehring Division:**  
 Snawler crane, \*May 45  
**Kohler Company:**  
 New series of electric plants, \*May 45  
 New electric plant, \*Sept 53

**Koppers Company, Inc.:**  
 Anti-checking irons, \*Apr 39  
 Protective coatings, Aug 36

**Kwik-Mix Company:**  
 Improved attachment for fork-lift truck, \*Sept 56  
 Hydraulic drive for vertical drills, \*Nov 38

**LeTourneau-Westinghouse Company:**  
 New transmission for Tournapull, \*Jan 54  
 Tandem scrapers, \*Mar 58

**Linde Company:**  
 Powder lance for cutting concrete, \*Jan 56

**Maintenance Equipment Company:**  
 Improved rail lubricator, \*Mar 52  
**Matiss Equipment Corporation:**  
 Production tamper, \*Mar 56  
**McKiernan-Terry Corporation:**  
 New pile hammers, \*Aug 36

**Motorola, Inc.:**  
 Radio control system for track lining machines, \*Mar 58  
 Two-way radio, \*May 44

**National Cylinder Gas Division:**  
 New rail cutter, \*Apr 42  
 Portable rail drill, \*Oct 31

**The Nelson Company:**  
 New tie marker, \*Feb 39

**The Nolan Company:**  
 New rail loader, \*Dec 35

**Nordberg Manufacturing Company:**  
 New unit for cribbing machine, \*Mar 52  
 Improvements made to tamping power jack, \*Mar 62

**Candy-Snapper, \*Mar 64**  
 Lightweight device for track surfacing, \*Apr 39

**D. W. Onan & Sons, Inc.:**  
 New electric plants, \*Nov 40

**Pullman-Standard:**  
 Improvements made to power tie spacer, \*Mar 62

**Racine Hydraulics & Machinery, Inc.:**  
 Jacking cylinders for Oct-A-Gun tamper, \*Sept 58

**Railroad Rubber Products, Inc.:**  
 Plastic plug for ties, \*May 45

**The Rails Company:**  
 Snow detector for track use, \*Jan 57  
 New heating units, \*May 45  
 Switch rod heater, \*Nov 38

**Railway Maintenance Corporation:**  
 Improved tie spacer, \*Apr 39  
 "Combination" machine, \*July 36  
 Automatic features for production tamper, \*Sept 53

**Improvements made to jack tamper, Sept 58**  
 Cleaning unit for ballast distributor, \*Oct 31

**Remington Arms Company, Inc.:**  
 New chain saw, \*Nov 40  
**Reud Little Tree Injection Company:**  
 Tree injector, \*Aug 35

**Rowco Manufacturing Company, Inc.:**  
 New brush cutter, \*Aug 35  
**Rowe Methods, Inc.:**  
 New crossover bridge, \*Feb 39

**Schild Bantam Company:**  
 New 11-ton Rail-Roader unit, \*Sept 56

**Schramm, Inc.:**  
 Air compressor, \*July 38

**Schroeder Brothers Corporation:**  
 Hydraulic circuit tester, \*Feb 39

**Screw & Bolt Corporation of America:**  
 High-strength bolts, July 36

**Speed King Manufacturing Company:**  
 Portable digger, \*Oct 31

**Standard Dry Wall Products, Inc.:**  
 Building materials, July 36

**Templeton, Kenly & Co.:**  
 New traversing base, \*Mar 58

**Thermex Metallurgical, Inc.:**  
 New Thermit method for rail welding, \*Aug 35

**Thern Machine Company:**  
 Truck and davit crane, \*Apr 42

**Timber Hardware Company:**  
 New aluminum alloy shear plates, Jan 57

**Transport Products Corporation:**  
 New portable equipment unloader, \*Aug 35

**Truck Equipment Company:**  
 Turret derrick, \*Mar 60

**True Temper Corporation:**  
 New one-piece anchor, \*Apr 57

**Van Products Company:**  
 Air dryers, \*May 42

## Index to Authors

*Illustrated articles are indicated thus\**

Adams, J. V., Apr 44  
Alberts, C. R., Dec 44  
Anderson, E. L., Mar 82B  
Austin, S. B., May 29\*

Beam, Y. C., Nov 44  
Beatty, A. G., Apr 44  
Becker, J. H., Feb 42; Apr 58; May 33; July 51  
Becker, R. H., Dec 38  
Berta, F. T., Apr 49  
Biggar, T. L., May 46  
Bjorklund, W. R., Mar 86; May 52  
Blackburn, J. C., Nov 41  
Bledsoe, L. V., Feb 42  
Borst, H. V., Apr 50, 52  
Bright, J. A., Feb 44  
Bugbee, W. E., Nov 50  
Burford, A. E., Dec 40

Carlson, A. W., May 52  
Carman, J. W., Nov 42  
Cash, E. E., Apr 48  
Caywood, J. A., Sept 60  
Chaffee, W. W., Nov 48  
Chandler, G. P., Sept 82  
Chinquist, C. C., Oct 50  
Chiodo, Frank, Apr 49  
Ciccolilli, P. R., Aug 46  
Code, C. J., Sept 45\*  
Collister, L. C., Sept 70  
Corban, J., Nov 48  
Cors, B. E., May 34  
Cosgrove, P. A., Sept 60  
Cox, E. W., Apr 46

Dangremond, R. V., Sept 74  
DeCastro, J. T., Sept 88  
Dennis, H. G., Oct 42  
Dove, R. E., Jan 23\*  
Dowdell, G. A., June 51  
Downard, R., Mar 82A  
Duran, Phillip, July 43  
Duresky, F., Aug 41

Eixenberger, A. S., Mar 69  
Essman, A. L., July 44

Faries, D. T., Dec 43  
Flinn, L. E., Sept 38\*  
Fogarty, S., Jr., Sept 80  
Foley, J. S., Oct 50

Gerylo, J., May 66  
Gill, W. J., Oct 38  
Gilzow, H. F., Nov 48\*  
Guinn, G. W., Jr., Feb 42  
Gunderson, R. R., Sept 64

Gwyther, R. E., Nov 32\*

Hagen, C. A., Aug 38  
Hahn, H. D., July 43  
Halverson, C., Aug 37  
Harlow, H. M., Aug 41  
Harp, M. J., Aug 40  
Hayes, G. F., Jr., Aug 40  
Heck, J. E., Dec 40  
Henninger, A. D., Aug 38; Nov 44  
Hess, F. A., July 40  
Hillman, G. L., June 47  
Horn, F. L., Aug 52  
Houser, J. E., July 42  
Huddleston, F. E., Aug 39  
Huntsman, W. J., Dec 38  
Hutchings, V. W., Dec 38

Intlekofer, C. F., Dec 38

Jackman, C. E., Apr 44  
Jackson, R. D., Aug 38  
Jentoft, L. H., Dec 24\*  
Johnson, G. C., Feb 46  
Jorlett, J. A., May 56; Aug 41

Kellogg, H. W., Sept 60  
Kelly, R. J. D., June 38  
Kenyon, M. D., May 34  
Knight, E. W., June 48; Aug 38  
Koch, H. C., Feb 40; June 40  
Kuebler, D. A., June 44  
Kvenberg, A. E., July 48

La Chapelle, H. A., Dec 38  
Lamphier, G. K., Mar 74  
Langford, W. A., Feb 48  
Lansing, H. L., July 40  
Lawson, L. G., June 38; Aug 38, 39; Dec 36, 44, 48  
Lingle, T. N., Feb 48

Maas, N. H., Feb 40; Oct 38  
Magee, G. M., Sept 33\*  
Mallon, M. A., Apr 49  
Manion, T. O., Oct 42  
Martens, H. F., May 46  
McCarthy, J. F., June 46  
McClendon, M. S., Apr 52  
McMaster, R. C., Nov 49  
Minteer, H. C., Sept 64  
Monrod, Thor, Mar 88; June 44; Dec 36, 50  
Mountain, W. J., Apr 54  
Murphy, A. J., Nov 44

Neikirk, J. W., Dec 47  
Olsen, N., May 66  
O'Rourke, G. M., Apr 58

Palmer, R. E., Feb 42  
Parris, Cleston G., Feb 26\*

Patrick, T. H., Sept 72  
Peak, R. H., Nov 30  
Pearson, C. A., June 51  
Peck, R. E., June 44  
Pennington, L. R., Nov 50  
Pheps, C. E., Feb 50; Mar 82  
Pound, E. R., Nov 50  
Prata, T. A., May 64  
Prestass, E. W., July 50  
Presthus, E. J., Oct 37  
Prewitt, O. C., Dec 49  
Pruett, M. T., Nov 48

Roche, L. D., Mar 75  
Ruble, E. J., Sept 33\*  
Rushford, W. E., Nov 50

Schifalacqua, M., Sept 66  
Schneider, F. E., May 54  
Schubert, W. A., May 32; Aug 37; Sept 90;  
Oct 42; Dec 50

Sevig, H. M., June 53  
Shaw, J. E., Oct 46  
Shepherd, J. L., Jr., Aug 47  
Short, W. L., July 47  
Simmons, R. C., June 46  
Simonson, E. F., Apr 46  
Slack, D. A., Feb 44  
Slagle, G. P., Nov 44  
Smith, G. F., Nov 42  
Snyder, E. F., Oct 44  
Spencer, Lee, Dec 36, 50  
Stang, John, Oct 42  
Steele, H., May 68  
Stell, M. A., June 50  
Stewart, W. W., Feb 54  
Stone, J. L., Feb 42  
Storer, J. W., Sept 68  
Straughan, E. P., May 46  
Summitt, G. T., Mar 79

Templeton, J. B., Mar 36\*  
Terry, C. H., Oct 38  
Thompson, C. C., Mar 69  
Tucker, O. D., June 52  
Tucker, O. H., July 45  
Tucker, R. L., Nov 41

Vansandt, T. J., Dec 46

Wachter, C. E., June 46  
Wang, A. B., May 54; Aug 41; Nov 42  
Warner, Fred, Apr 49  
Welch, V. J., Apr 48  
Wilkins, H. J., Aug 40  
Wisman, A., Nov 41  
Woolford, F. R., Mar 35\*

Yaros, George, May 34  
Yazell, D. H., Oct 37  
Zettelmier, J. W., Sept 74



